Index of Claims

| Application/Contro | No. Applicant(s)/Patent under Reexamination |  |
|--------------------|---|--|
| 09/923,433         | KOYAMA ET AL.                               |  |
| Examiner           | Art Unit                                    |  |

Rejected - (Through numeral)
Cancelled

÷ Restricted

N Non-Elected

I Interference

Amare Mengistu

A Appeal
O Objected

2629

| Cla  | im       |          |              |              |              | Date         | <del>-</del>                           | _              |          |          |          | Cla          | aim      |          |                 |          | Dat      | e                 |          |          |      | Cl   | aim        |  |          | С            | ate             |          |                 |          |   |
|--|----------|----------|--------------|--------------|--------------|--------------|--|----------------|----------|----------|----------|--------------|----------|----------|-----------------|----------|----------|-------------------|----------|----------|------|--|------------|--|----------|--------------|-----------------|----------|-----------------|----------|---|
|  |          |          |              |              |              |              |  |                | T        |          |          |              |          | $\neg$   | Т               |          | Г        | П                 |          | Γ        | 闯    |  |            |  |          | Π            | T               | T        | T               | T        |   |
| Final  | Original | 90/8//   |              |              |              |              |  |                |          |          |          | Final        | Original | I        |                 | ı        |          | 1 1               |          |          |      | Final  | Original   |  | 1        |              | -               | ı        | -               | -        |   |
| Ę  | )ić      | 2/8      |              |              |              |              | - 1                                    | - [            |          |          |          | ίĒ           | Ĕ        |          |                 | 1        |          | l I               |          |          |      | ίΞ   | ١٤         |  |          |              |                 | ı        |                 | - 1      |   |
|  |          |          |              |              |              |              |  |                |          | _        | . !      |              |          |          |                 |          | _        |                   |          | <u> </u> |      |  | 1 1        |  | ┷        | Ш            | 4               | 4        | _               | 4        |   |
|  | 1        |          |              |              |              |              |  | _              | $\perp$  |          |          |              | 51       |          |                 | _        | ┺        | $\sqcup$          |          | ╄-       | 1.1  |  | 101        | _  |          | $\vdash$     | 4               | -        | _               | 4        | _ |
|  | 2        | L        |              |              |              |              |  | _              | _        | _        | 4        |              | 52       | _,       |                 |          | <u> </u> | $\sqcup$          | +        | —        |      | <u> </u>   | 102        | 4  | +-       | $\sqcup$     | $\dashv$        | $\dashv$ | -               | +        |   |
|  | 3        | _        |              |              |              | $\Box$       | _                                      | _              | _        |          |          |              | 53       | <b>√</b> | _               | 4        | -        | $\vdash$          | +        |          |      |  | 103        |  | +        | $\vdash$     | -               | -        | $\dashv$        | 4        | 4 |
|  | 4        | <u> </u> | <u> </u>     |              |              | $\sqcup$     |  | _              | _        |          |          |              | 54       | 1        |                 | +        | +        | $\vdash$          | -        | +        |      | <u> </u>   | 104        |  | +-       | $\vdash$     |                 | $\dashv$ | -               | $\dashv$ | _ |
|  | 5        | 1        | _            |              |              | Щ            |  | -              | _        |          |          |              | 55       |          | _               | +        | +        | $\vdash$          |          | +        | 201  | ļ  | 105        | -  | -        | <del> </del> | +               | +        | -+              | -+       | _ |
|  | 6        | L.       | _            |              |              | Н            |  | _              |          | _        |          |              | 56       |          | -               | -        |          | $\vdash$          | -        | +-       |      |  | 106<br>107 | +  | +        | $\vdash$     | $\dashv$        | -        | -+              | $\dashv$ | _ |
|  | 7        | <b>-</b> | _            |              | _            | $\dashv$     | -                                      | -              |          | _        |          |              | 57<br>58 | $\dashv$ |                 | +        | ╁        | $\vdash$          | -        | +        |      | <u> </u>   | 108        | -+-  | +-       | -            | $\dashv$        | $\dashv$ | $\dashv$        | +        | _ |
|  | 8        | V        | H            | _            |              | -            | -                                      | -              |          |          |          |              | 59       |          | $\dashv$        | +        | ╁        | 1-1               | ╅        | +        |      |  | 109        | —  | +        | Н            | -               | -        | -+              | 十        | _ |
|  | 9        | ./       | <del> </del> | _            | _            | Н            |  | -              | 1        | -        | : Y      |              | 60       | $\vdash$ | +               | +        | ┿        | ╁                 |          | +        | 14   | <del>                                     </del> | 110        |  | +        | $\vdash$     | $\dashv$        | $\dashv$ | -+              | +        |   |
|  | 10<br>11 | 1        | $\vdash$     | -            | H            | Н            | $\vdash$                               |                | $\dashv$ |          | 1        | <del></del>  | 61       | $\vdash$ | +               | +        | ╁        | ++                | +        | +-       | M    | <del> </del>                                     | 111        | $\dashv$   | +        | Н            | $\dashv$        | $\dashv$ | +               | $\dashv$ |   |
|  | 12       | ۲        | ├            | $\vdash$     | $\vdash$     | H            |  | $\dashv$       | $\vdash$ |          |          | $\vdash$     | 62       | $\vdash$ | -               | +        | +        | ++                | +        | +        | 1    | <del>                                     </del> | 112        | +  | +        | $\vdash$     | $\dashv$        | $\dashv$ | +               | $\dashv$ |   |
|  | 13       | $\vdash$ |              | -            |              | $\vdash$     |  | -              | $\vdash$ |          |          |              | 63       | $\vdash$ | -               | +        | +        | +                 |          | +        |      |  | 113        |  | +        | Н            |                 |          | $\dashv$        | $\dashv$ | _ |
| <b></b>  | 14       | $\vdash$ | -            | $\vdash$     | -            | Н            | Н                                      | -              | $\vdash$ | -        |          | <b></b>      | 64       | Н        |                 | +        | +        | ╅┪                | -        | T        |      |  | 114        |  | +        | T            |                 | _        | $\dashv$        | 寸        |   |
|  | 15       | ┝        | ├            | $\vdash$     | -            | H            |  |                | Н        |          |          | <b>-</b>     | 65       | -        |                 | +        | +        | $\vdash$          | -        | ╁        | K!   | $\vdash$   | 115        | $\neg \top$                                      | $\top$   | H            |                 |          | $\neg$          | 寸        | - |
| <del>                                     </del> | 16       |          | $\vdash$     |              |              | $\vdash$     | $\vdash$                               | -              | $\vdash$ |          |          | $\vdash$     | 66       | H        | $\vdash$        | +        | 十        | $\dagger \dagger$ | $\dashv$ | 1        | 1    |  | 116        |  | $\top$   | П            |                 |          | 寸               | $\dashv$ |   |
| <b></b>  | 17       | $\vdash$ | ┢            |              | _            | Н            | $\vdash$                               |                |          | _        |          | <u> </u>     | 67       |          |                 | +        | $\vdash$ | 11                |          | T        | 13   |  | 117        | $\dashv$   |          | 1            |                 | $\neg$   |                 | 寸        |   |
| $\vdash$   | 18       | _        | H            | -            | $\vdash$     |              |  |                | H        |          |          |              | 68       |          |                 | $\top$   |          | $\Box$            | _        | 1        |      |  | 118        |  |          |              |                 |          |                 |          |   |
|  | 19       | ┢        | ╁╌           |              | -            | $\vdash$     |  |                | Н        |          |          |              | 69       |          |                 | $\neg$   | +        | $\Box$            | $\top$   | $\top$   | 1    |  | 119        |  |          | $\vdash$     | П               |          | T               | ┪        |   |
|  | 20       | t        | T            | $\vdash$     | <del> </del> | H            | _                                      |                |          | _        | 100      |              | 70       | 1        |                 | $\dashv$ | $\top$   | T                 |          |          |      |  | 120        |  | 1        |              | П               |          | $\neg$          |          |   |
|  | 21       |          |              | $\vdash$     | $\vdash$     | ┢            |  |                | П        |          |          |              | 71       | 1        |                 | _        |          | Ħ                 |          |          |      |  | 121        |  | 1        |              | П               |          | $\neg$          | $\neg$   |   |
|  | 22       |          | <u> </u>     | Г            | <del> </del> |              | _                                      |                |          |          |          |              | 72       |          |                 |          |          | $\Box$            |          |          |      |  | 122        |  | 1        |              |                 |          |                 |          |   |
|  | 23       | T        | T            |              |              |              |  |                |          |          |          |              | 73       |          |                 |          |          | $\Box$            | $\neg$   | $\top$   | 19   |  | 123        |  |          |              |                 |          |                 |          |   |
|  | 24       |          | T            |              |              |              |  |                |          |          |          |              | 74       | 1        |                 |          |          |                   |          |          |      |  | 124        |  |          |              |                 |          |                 |          |   |
|  | 25       | Π        | Г            |              |              |              |  |                | П        |          | M.       |              | 75       | 1        |                 |          |          |                   |          | Τ.       |      |  | 125        |  |          |              |                 |          |                 |          |   |
|  | 26       |          |              |              |              |              |  |                | П        |          | ba       |              | 76       |          |                 |          |          |                   |          |          |      |  | 126        |  |          |              |                 |          |                 |          |   |
|  | 27       |          |              |              |              |              |  |                |          |          | ]        |              | 77       |          |                 |          |          |                   |          |          |      |  | 127        |  |          |              |                 |          |                 |          |   |
|  | 28       |          |              |              |              |              |  |                |          |          | ]/".     |              | 78       |          |                 |          |          |                   |          |          |      |  | 128        |  |          |              | Щ               | _        |                 |          |   |
|  | 29       |          |              |              |              |              |  |                |          |          |          |              | 79       |          |                 |          |          |                   |          | ┸        |      | L  | 129        | $\perp$  | ┸        |              | Ш               |          |                 | _        |   |
|  | 30       |          |              |              |              |              |  |                |          |          | ]        |              | 80       |          |                 | $\perp$  | $\perp$  | Ш                 |          |          | ]    |  | 130        |  |          | ┺            |                 |          |                 | _        |   |
|  | 31       | L        |              |              |              |              |  |                |          |          |          | L            | 81       | <u> </u> | Ш               |          |          | Ш                 | _        | 4_       | 1    |  | 131        |  | _        | 1            | Ш               |          | _               | _        | _ |
|  | 32       |          |              | $oxed{oxed}$ | 匚            | $oxed{oxed}$ | <u> </u>                               |                |          |          |          | L            | 82       | √.       | $\sqcup$        | $\perp$  | 4        | $\perp \perp$     | _        | $\perp$  |      | L  | 132        | $\perp$  | 4_       | $\vdash$     | $\sqcup$        | _        | $\dashv$        | _ļ       |   |
|  | 33       | V        | $\perp$      | $oxed{oxed}$ | <u> </u>     | $oxed{oxed}$ | L                                      | <u> </u>       | Ш        | _        |          | <u></u>      | 83       | 1        | $\sqcup$        | _        | $\bot$   | $\perp$           |          | +        | J.,  | <u> </u>   | 133        | $\vdash$   | 4        | ╁            | Щ               |          |                 |          |   |
| <u></u>  | 34       | 1        | 1            | <u> </u>     | <b>L</b>     | _            |  | <u> </u>       | Щ        | <u> </u> |          | <u> </u>     | 84       | 1        |                 | _ .      | -        | Ш                 | _        | +-       |      | -  | 134        |  | +        | ╄-           | $\vdash \vdash$ |          |                 | _        |   |
| <u> </u>   | 35       | ╀-       | 1            | ऻ_           | <del> </del> | $\vdash$     | 1_                                     | <del> </del>   | Ш        | _        |          | <b> </b>     | 85       | 1        | $\vdash \vdash$ | -        | +        | 1-1               |          | +        | -100 | <b> </b>   | 135        | $\vdash \vdash$                                  |          | +            | $\vdash$        | $\dashv$ | $\vdash$        | $\dashv$ | _ |
| L  | 36       | 4        | ╀            | $\vdash$     | ┞            | <u> </u>     | _                                      | ├_             | Ш        | _        | 1        | <u> </u>     | 86       | 1        | $\vdash \vdash$ | $\dashv$ | +        | +                 | +        | +        | 13   | <b>-</b>   | 136        |  | -        | +            | Н               |          | $\vdash \vdash$ | -        |   |
| <u> </u>   | 37       | $\vdash$ | ـ            | <b>├</b>     | ⊢            | <del> </del> | $\vdash$                               | <u> </u>       | Н        | L.       | <b>∤</b> | <u> </u>     | 87       | 1        | $\vdash$        | +        | +        | +                 |          | +-       | 4    | -  | 137        | ⊢-   | +-       | +            | $\vdash$        |          | $\vdash$        | -        | _ |
|  | 38       | $\vdash$ | $\vdash$     | $\vdash$     | <del> </del> | ├-           | ⊢                                      | _              | $\vdash$ | _        | 1        |              | 88       | $\vdash$ | $\vdash$        | +        | +        | +-                | -        | +-       | 1    | <del> </del>                                     | 138<br>139 | $\vdash \vdash$                                  | +        | +            | $\vdash$        |          | $\vdash$        | $\dashv$ | - |
| <u> </u>   | 39       | +        | +            | _            | -            | $\vdash$     | <del> </del>                           | <del> </del>   | -        | _        | -        | <u> </u>     | 89       | ├-       | $\vdash \vdash$ | +        | +        | $\vdash$          | +        | +        | 1::  | -  | 140        | $\vdash$   | +-       | +-           | Н               | $\vdash$ | $\vdash$        | $\dashv$ |   |
| ├—   | 40       | $\vdash$ | ╀            | ┼            | ⊢            |              | $\vdash$                               | -              | -        | $\vdash$ | 1        |              | 90<br>91 | ⊢        |                 |          | +        | +-                | +        | +        | -    | $\vdash$   | 141        | $\vdash \vdash$                                  | +        | +            | $\vdash$        | $\vdash$ |                 |          |   |
| <u> </u>   | 41       | ┼        | +            | $\vdash$     | -            | $\vdash$     | ├                                      | <del> </del>   |          | ├        | ┨ .      | -            | 92       | ├-       | $\vdash$        | +        | +        | +                 | -+-      | +        | -    |  | 141        | $\vdash$   | +        | +            | $\vdash$        | -        | $\forall$       | $\dashv$ |   |
| -  | 43       | ╁        | ╀            | +-           | +            | -            | ⊢                                      | $\vdash$       | H        | ⊢        | ł        | -            | 93       | $\vdash$ |                 | +        | +        | +                 |          | +        | 1::  | $\vdash$   | 143        | $\vdash \vdash$                                  | +        | +            | $\vdash$        |          | $\vdash$        | $\dashv$ | _ |
| <b></b>  | 44       | $\vdash$ | ╁            | ┼            | +            | $\vdash$     | $\vdash$                               | ├-             | $\vdash$ | -        | 1        | -            | 94       | ┢        |                 | +        | +        | +                 | +        | +        |      | $\vdash$   | 144        | $\vdash$   | +        | +            | Н               |          | $\vdash$        | $\dashv$ |   |
| <del></del>                                      | 45       | ╁        | +            | 1-           | +            | ╁            | $\vdash$                               | <del>  -</del> | -        | ┢        | 1        | $\vdash$     | 95       | $\vdash$ | $\vdash$        | +        | +        | 1-                | -+       | +        | ╣.   | -  | 145        | $\vdash$   | +        | +            | 1               |          | $\vdash \vdash$ | _        |   |
| -  | 46       | +        | +            | +-           | $\vdash$     | $\vdash$     | +-                                     | -              | +-       | $\vdash$ | ┨        | <b>—</b>     | 96       | H        | <del>   </del>  | +        | +        | +                 | $\dashv$ | +        | 1    | <b>-</b>   | 146        | $\vdash$   | +        | +            | -               | $\vdash$ | H               | $\dashv$ | _ |
| <del></del>                                      | 47       | 1        | +            | +            | +-           | ╁            | $\vdash$                               | +-             | +-       | -        | 1        | <del> </del> | 97       | $\vdash$ | +               | +        | +        | +                 | -        | +        | 1    | -  | 147        |  | +        | +            | $\vdash$        | $\vdash$ | $\vdash \vdash$ |          |   |
| $\vdash$   | 48       |          |              | ╁╌           | +-           | +            | 1                                      | $\vdash$       | +        | $\vdash$ | 1        | -            | 98       | ╁        | <del>   </del>  | +        | +        | +-                | $\dashv$ | +        | 1    | $\vdash$   | 148        | <del>                                     </del> | +        | +            | $\vdash$        | Н        | $\vdash$        |          | - |
| $\vdash$   | 49       | ┿        | +-           | +-           | +            | ╁            | +-                                     | +-             | $\vdash$ | $\vdash$ | 1        | -            | 99       | t        | $\vdash$        | $\dashv$ | ╅        | +-                | -        | +        | 1    | <b>-</b>   | 149        | $\vdash$   | +        | T            | т               | $\vdash$ | $\vdash \vdash$ | $\dashv$ |   |
| -  | 50       | ╁        | ╁╴           | ╁╌           | ╁            | ╁            | -                                      | -              | $\vdash$ | $\vdash$ | 1        |              | 100      |          | $\vdash$        | $\dashv$ | 十        | +                 |          | +        | 1    |  | 150        | -  | $\dashv$ | +            | $\vdash$        |          | H               |          | _ |
| ш  | _50      | <u> </u> | Т            | _            | _            |              | ــــــــــــــــــــــــــــــــــــــ | <u> </u>       | -        |          | ٠.       | Ь            | , .00    |          |                 | L        |          |                   |          |          | ٠.   |  | 1.00       |  |          | т            | Ц.              |          |                 |          | _ |